

## ABSTRACT OF THE DISCLOSURE

In order to provide an access network system that has durability against transmission quality deterioration and fault and controls the causes of delay in the communication processing for data transmission, the base stations (communication nodes) are arranged in a plurality of cross-points, and the base stations have a function capable of transmitting and receiving the information of an optical wireless communication type and the like, and are mutually linked with each other by wireless and constitute an access network which is accessible cross-wise from each base station by a wireless communication link passage. This access network is wirelessly connected to other outside communication network by an access network terminating set.